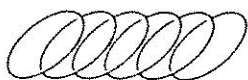
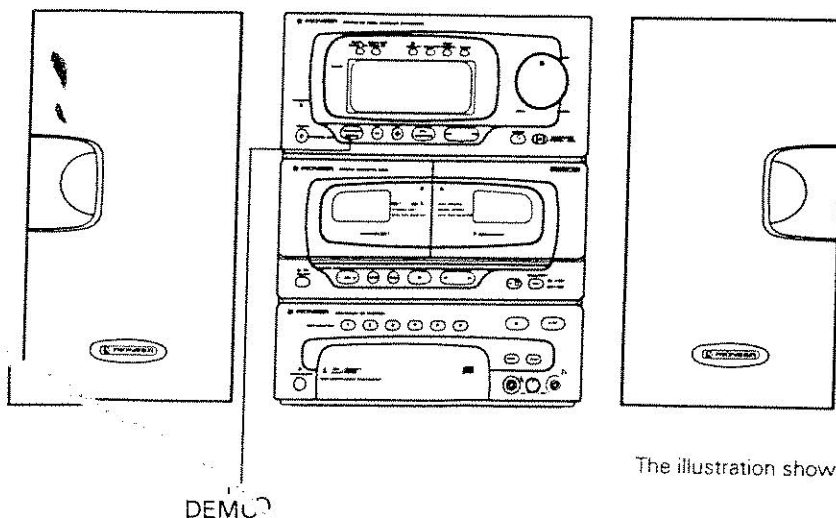


Operating Instructions



STEREO MULTI-PLAY CD CASSETTE DECK RECEIVER **XR-P5500M/XR-P4500M/XR-P3500M**

SPEAKER SYSTEM
S-P255/S-P3550V/S-P4550V
S-P4500/S-P5500/CS-22D
SUB WOOFER SYSTEM
S-W33D



- XR-P5500M is for U.S. model only.
- XR-P4500M is for all models except the U.K. model.
- XR-P3500M is for all models except the U.S. model.
- S-P4500 and S-P5500 are for U.S. model only.
- S-P255 is for the U.K. and European models.
- S-P3550V, S-P4550V, CS-22D and S-W33D are for all models except the U.S. model and the U.K. model.

The illustration shows XR-P3500M and S-P255.

Demo Function

If the FUNCTION (DEMO) button is pressed when the power is in STANDBY mode, the demonstration mode will be selected and power will be turned ON automatically. In the demo mode, various functions of this system appear on the display.

- To exit the demo mode, turn off the power or press the FUNCTION (DEMO) button.

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE

[For U.S. model]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure place. This is for your security.

[FOR U.S. MODEL]

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK). NO USER-
SERVICEABLE PARTS INSIDE. REFER SERVIC-
ING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug

NOTE

After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost replacement fuse covers can be obtained from your dealer.

Only S.A. fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS - All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS - The operating instructions should be retained for future reference.

HEED WARNING - All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.

WATER AND MOISTURE - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION - The appliance should be installed in a stable locations.

WALL OR CEILING MOUNTING - The appliance should not be mounted to a wall or ceiling.

VENTILATION - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION - If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING - The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES - An outdoor antenna should be located away from power lines.

NONUSE PERIODS - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE - The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING - The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING - If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART - An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



NEC - NATIONAL ELECTRIC CODE

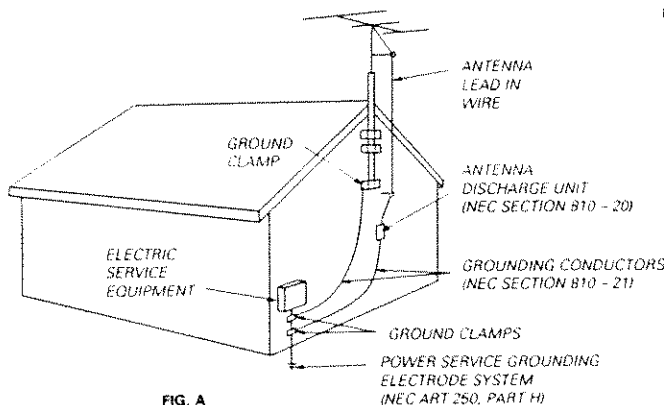


FIG. A

[FOR U.K. AND EUROPEAN MODELS]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location: rear of the unit

CLASS 1
LASER PRODUCT

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

The Magazine Type Multi-Play CD Players with  mark and the Magazines with the same mark are compatible for 5-inch (12cm) discs.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

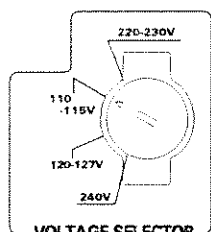
LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.K., U.S., European and Australian models are not provided with this switch.

Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model at the 110-115V setting in Saudi Arabia.

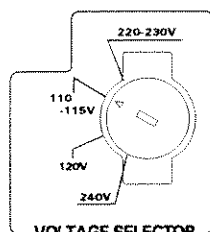
The line voltage selector switch is on the rear panel. Before your model is shipped from the factory, this switch is set to the power requirements of the destination; nevertheless, you should check that it is set properly before plugging the power cord into the wall outlet.

1. Disconnect the power cord.
2. Use a medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector and adjust so that the tip of the arrow points to the voltage value of your area.



VOLTAGE SELECTOR

<Flat blade 2-pin
AC plug model>



VOLTAGE SELECTOR

<Round 2-pin
AC plug model>

CONTENTS

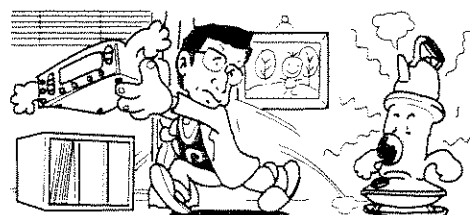
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CAUTIONS REGARDING HANDLING

Location

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.

Do not install the unit in a location which is exposed to direct rays of the sun, or near stoves or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may also result in a malfunction or an accident. (Avoid installation near cookers, etc., where the unit may be exposed to smoke from oil, steam or heat.)

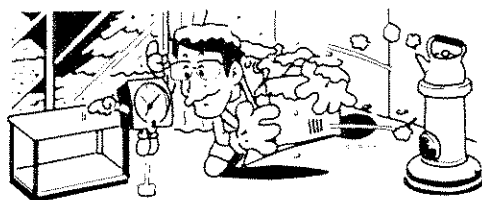


Precautions regarding installation

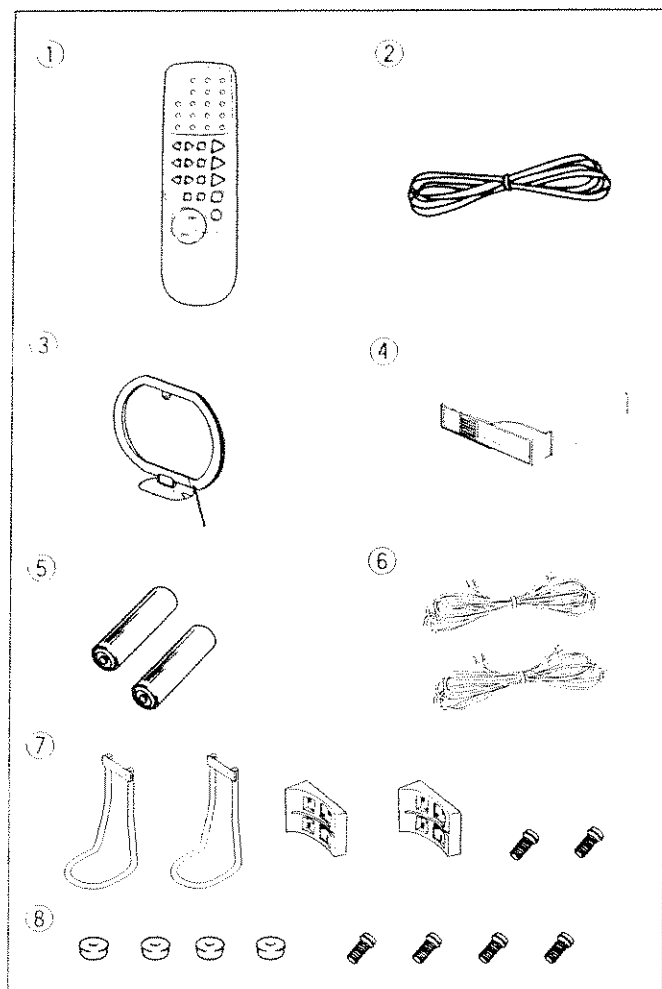
- Placing and using the unit for long periods on heat-generating sources will affect performance. Avoid placing the unit on heat-generating sources.
- Install the unit as far away as possible from your TV. Installation in close proximity to such equipment may cause noise or degradation of the picture.
- Such noise may be particularly noticeable when an indoor antenna is used. In such cases, make use of an outdoor antenna, or turn off the power to the unit.
- Please place this unit on a level surface.

Condensation

When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside, and the unit may not be able to attain its full performance. To prevent this, raise the room temperature gradually or allow the unit to stand for about an hour before switching it on.

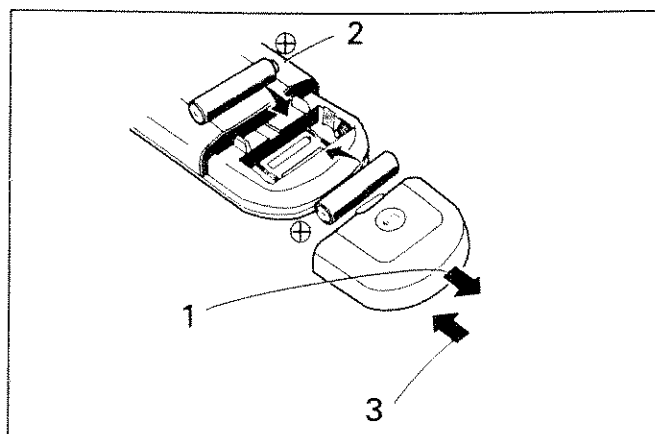


CONFIRM SUPPLIED ACCESSORIES



- ① Remote control unit x 1
- ② FM T-type antenna x 1
- ③ AM loop antenna x 1
- ④ 6-compact disc magazine x 1
- ⑤ AAA/R03 dry cell batteries
- ⑥ Speaker cords x 2(Included with speaker section) (S-P255,S-P4500,S-P5500 only), Speaker cord x 4 (CS-22D only)
- ⑦ (CS-22D only)
Base unit x 2, Stopper x 2, Screw x 2 (Included with speaker section)
- ⑧ (S-W33D only)
Plastic foot x 4, Screw x 4 (Included with subwoofer)

PUT BATTERIES INTO THE REMOTE CONTROL UNIT



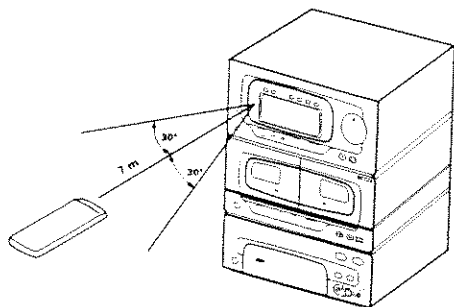
1. Open the battery compartment cover on the back of the remote control unit.
2. Insert size AAA/R03 dry cell batteries into the battery compartment in accordance with the indications(⊕, ⊖) inside the compartment.
3. Close the cover of the battery case.

Incorrect use of batteries may cause leakage or rupture. Always be sure to follow these guidelines:

- A. Always insert batteries into the battery compartment correctly matching the positive ⊕ and negative ⊖ polarities, as shown by the display inside the compartment.
- B. Never mix new and used batteries.
- C. Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.

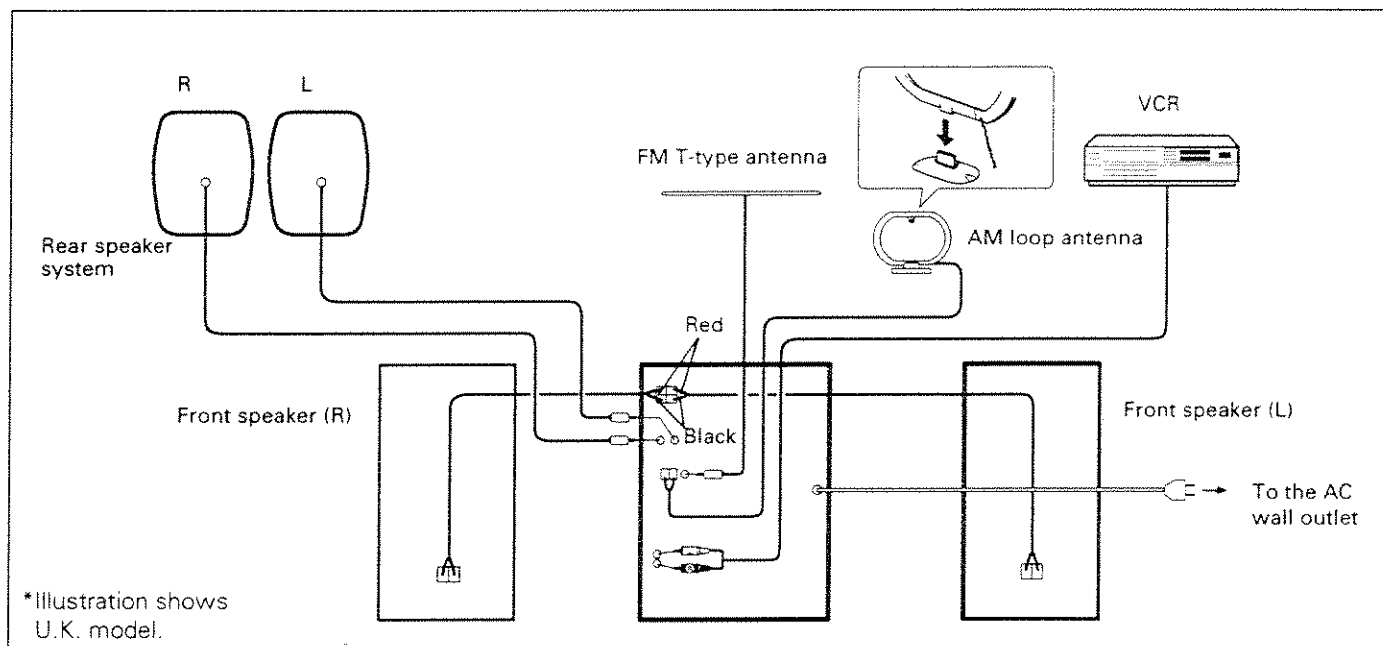
REMOTE CONTROL OPERATIONS

The remote control unit can be used within a range of approx. 7 meters (23 feet) from the remote sensor, and within angles of up to approx. 30 degrees.



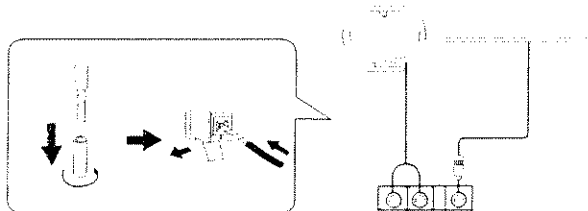
- If the remote control sensor window is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.

CONNECTIONS



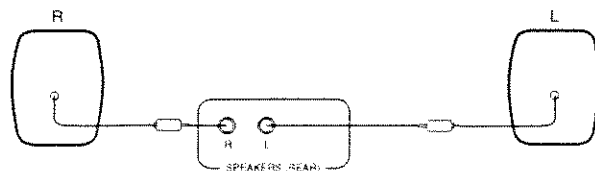
- Plug the power cord into the AC wall outlet only after all the connections have been completed.
- Be sure to connect an antenna. If you do not, broadcast signal reception will not be possible.

1 Connect AM loop antenna and FM T-type antenna to the unit's antenna terminals.



Rear speaker system connection (except for U.S. model)

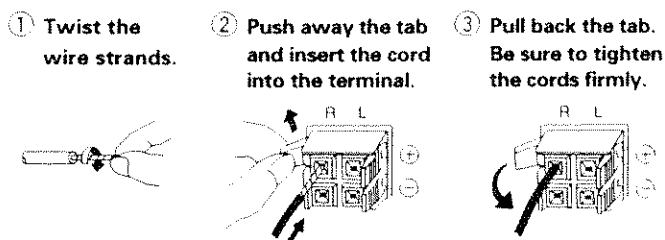
- Connect the plugs properly.
- Rear speakers equipped with standard pin plugs and with a nominal impedance of 16 Ω or more can be connected.



2 Connect the speaker cords to the SPEAKERS terminals.

(S-P255, S-P3550, S-P4550, S-P4500, S-P5500)

Connect the red cords to the "+" (red) terminals and the black cords to the "-" (black) terminals.



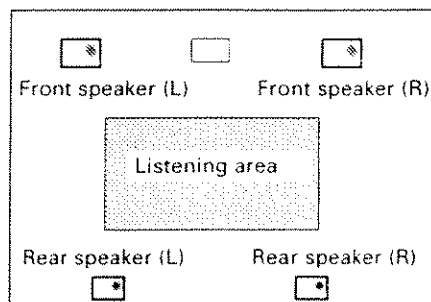
NOTE:

Do not allow the conductors of the cords to project out of the terminals or to come into contact with other conductors. A breakdown or failure may occur when conductors touch.

Speaker impedance

Connect speaker systems with a nominal impedance ranging from 8 to 16 Ω .

Rear speaker system installation example



When mounting a rear speaker system on a wall

- Use the hole located on the rear panel of the speaker to mount it on a wall. Make sure the speakers will not drop when they are mounted on a wall.
- Make sure the wall is strong enough to support the speakers. PIONEER disclaims the responsibility for damages due to dropping of the speakers and other accidents, which are caused by inappropriate strength of the wall or improper installation.
- No screws, or other fittings are supplied to mount the speakers on the wall.

Precautions for the S-P255 and S-P4500

Do not connect to any amplifier other than the one supplied with this system. Connection to any other amplifier may in rare cases result in smoke or fire.

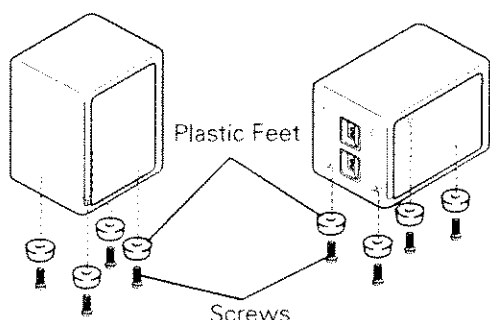
2' Connecting Speaker system CS-22D and Subwoofer system S-W33D.

Subwoofer S-W33D

Install the attached Plastic Feet.

Vertical installation

Horizontal installation



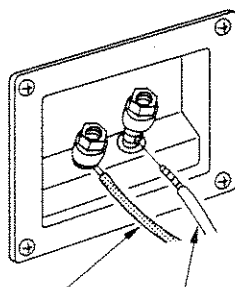
A medium-sized screwdriver is needed for assembly.

1. Set the CD deck receiver's power switch to OFF.
2. Connect the speaker cords to the input terminals at the side of the speaker system; connect the hot-side cord to the $\oplus$ terminal and the common-side cord to the $\ominus$ terminal. Bear in mind that the red input terminal has a " $\oplus$ " polarity, and the other terminal has a " $\ominus$ " polarity.
3. Connect the speaker cords to the CD deck receiver's front speaker output terminals. Connect the hot-side cord to the $\oplus$ terminal and the common-side cord to the $\ominus$ terminal.

NOTES:

- Connect in parallel the sub woofer's input terminals to the left (L) and right (R) channels of the CD deck receiver's front speaker output terminals. In connecting subwoofer terminals, there is no discrimination between (L) and (R).
- The subwoofer has two input terminals. Be sure to match connection polarity between the input terminals and the CD deck receiver's output terminals (Fig. a, b).

- ① Strip the insulation at the tip of the cord and twist the strands.



Connect the common-side speaker cord to the $\ominus$ terminal.

- ② Turn the thumbscrew anti-clockwise, make sure that the speaker cord is inserted well into the hole and turn the thumbscrew clockwise to fasten into position.

Connect the hot-side speaker cord to the $\oplus$ terminal.

The subwoofer's input terminals can also be connected by banana plugs.

When using a vertically installed subwoofer:

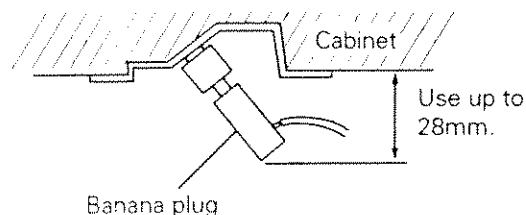
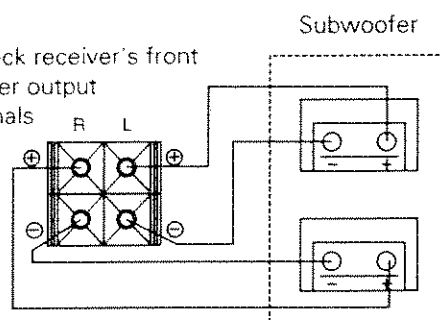


Fig. a

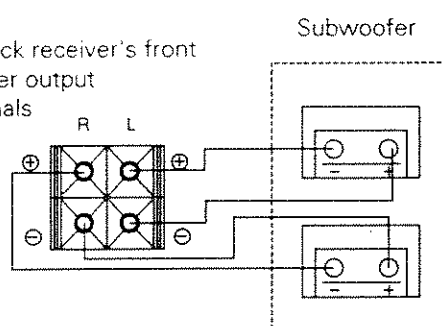
CD deck receiver's front speaker output terminals



OK

Fig. b

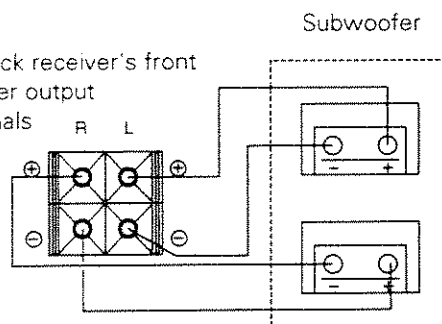
CD deck receiver's front speaker output terminals



OK

Fig-C

CD deck receiver's front speaker output terminals



NG

- When speaker cords are connected incorrectly, low-frequency sound may be interrupted and the Subwoofer may break down when the volume is increased (Fig. c).

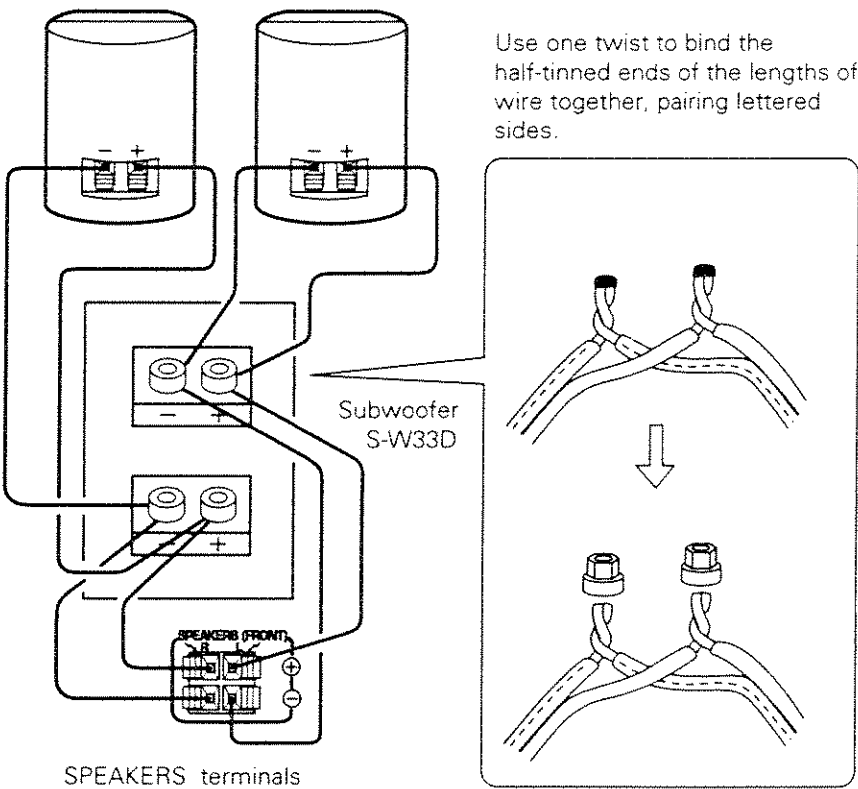
CONNECTONS

Connections for Front Speakers and Subwoofer

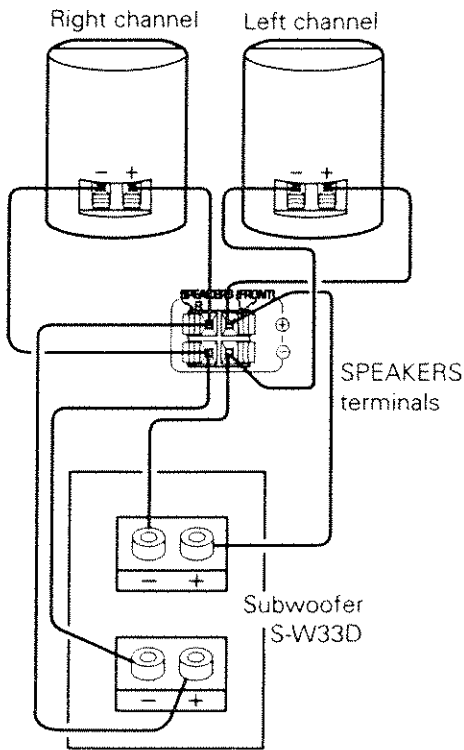
A is as a standard connection. Also, you can connect them as in B or C.

- A: Parallel connection to the subwoofer's input terminals.
- B: Parallel connection to the CD deck receiver's output terminals.
- C: Parallel connection to the front speakers input terminals.

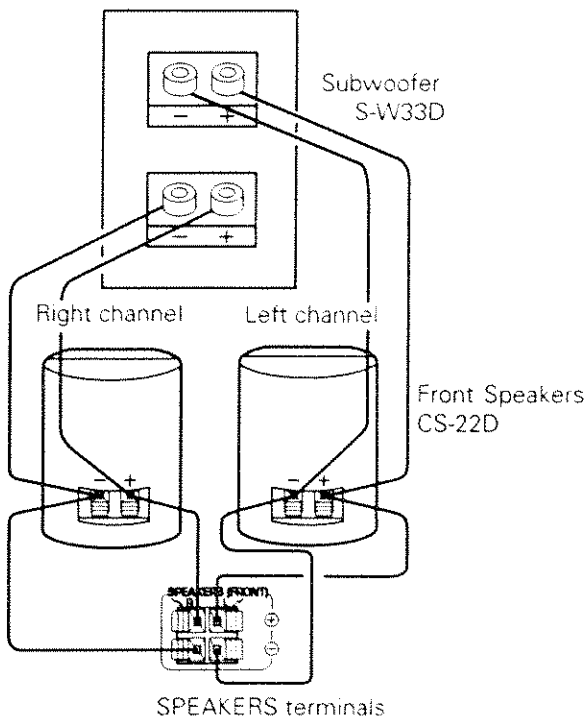
A Front Speakers CS -22D
Right channel Left channel



B Front Speakers CS-22D

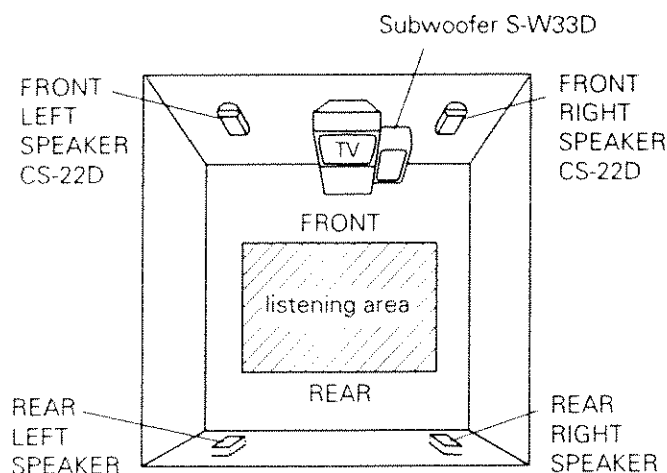


C



surround speaker installation example

To get the best effect out of the surround system, place the speakers as shown below.



You can install the subwoofer anywhere, but installation in the corner of the room or under the sofa will be most effective. Avoid blocking the aperture of the speaker box when installing.

NOTE:

This subwoofer omits sound from its rear. Place it at least 20 cm from the nearest wall. The bass volume varies depending on the distance from the wall. If the bass volume is too low, place the speaker closer to the wall; if the bass volume is too loud, move the speaker away from the wall.

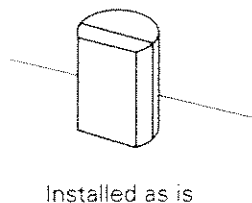
Cautions regarding installation

Do not install this speaker system near a stove or other heating appliance, or in places exposed to the sun. Such locations may cause the cabinet to change color and the speaker system to break down.

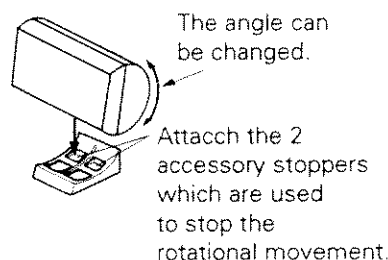
Using the Base unit of CS-22D.

The Satellite speakers with the attached base unit can be used as follows.

Vertical installation

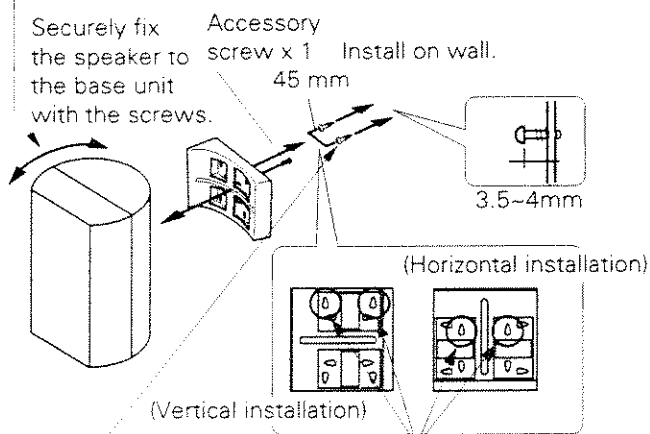


Horizontal installation



When installing a speaker on a wall: (Diagram below is for vertical installation.)

The angle can be changed when installing the speaker.



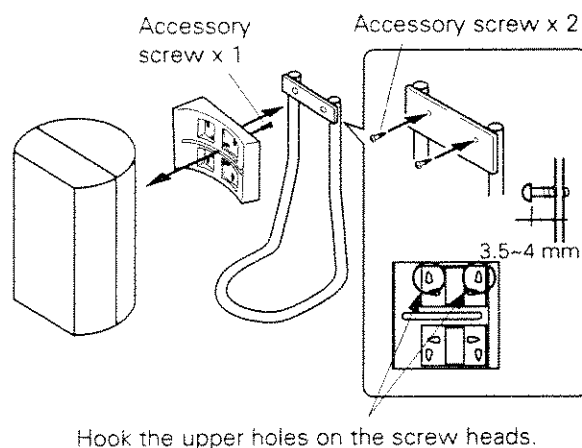
#5 Round Head wood screw x 2

Use screws that are long enough to suit the wall conditions, etc.

Cautions regarding fitting

- Before fitting the base unit, examine the walls to confirm that their strength is sufficient to bear the weight of the speaker system.
- This system is not provided with nuts and screws for installation, so select suitable ones corresponding to the qualities of your walls.
- If you are unsure of the qualities and strength of the walls, consult a professional for advice.
- Pioneer will not be responsible for any accidents or damage that result from improper installation.
- Be sure to fit the bracket on a vertical wall. If fitted on a slanted wall, the bracket may become loose and present a risk of an accident.

The CS-22D stand can be used as shown in the diagram.



CONNECTIONS

3 When using a video cassette recorder, connect the output cord to the VIDEO/AUX input jacks.

4 Finally, plug the power cord into the AC wall outlet.

NOTE:

Insert the plugs securely into the jacks. Improper connection can lead to sound distortion or a malfunction.

ANTENNA CONNECTIONS

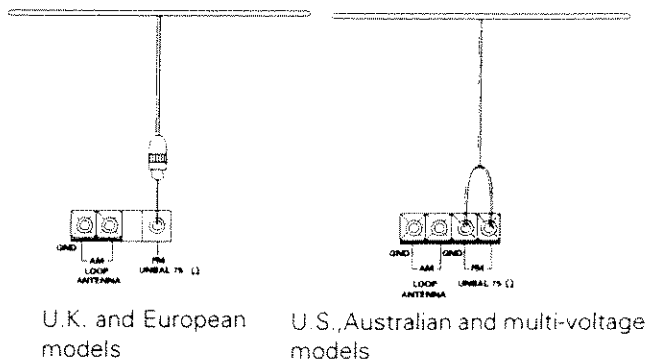
Radio reception is not possible unless the antenna is properly connected.

The strength of broadcast signals varies from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings, and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

FM T-type antenna

Stretch the antenna and affix it to a wall, etc.

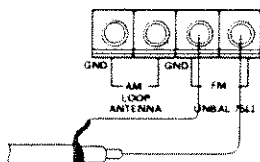


External FM antenna installation

Use an external antenna when the signals from stations are weak and cannot be picked up by the accessory FM T-type antenna, or when the sound heard is accompanied by large amounts of noise.

U.S., Australian and multi-voltage models:

Connect a 75 Ω coaxial cable.



Connect the shield wire to GND (ground).

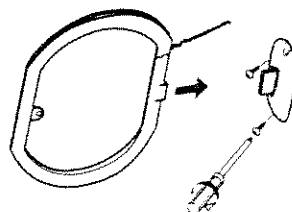
AM ANTENNA

The antenna should be placed at a distance from the tuner, and should not be allowed to touch metallic objects. Avoid placing it near CD players, personal computers, television sets, and other devices generating radio frequencies.

- Place the antenna on a level surface and rotate it to find the orientation that yields the best reception.

To attach the antenna to a wall, etc.

1. Select the place that yields the best reception.
2. Screw the leg to the wall, etc.
3. Insert the clip on the bottom of the antenna into the groove on the leg.



External AM antenna

Indoor AM antenna

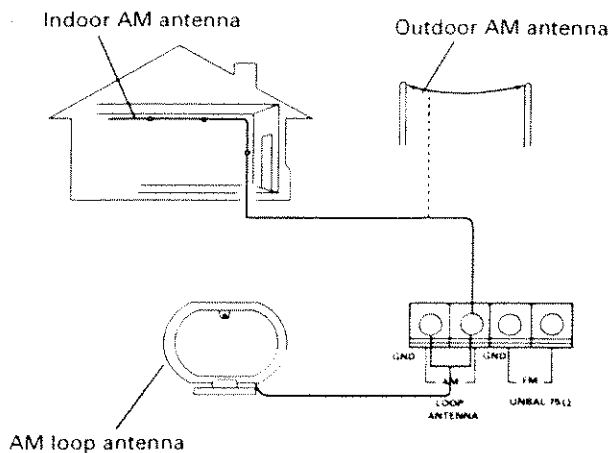
Provide a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

Outdoor AM antenna

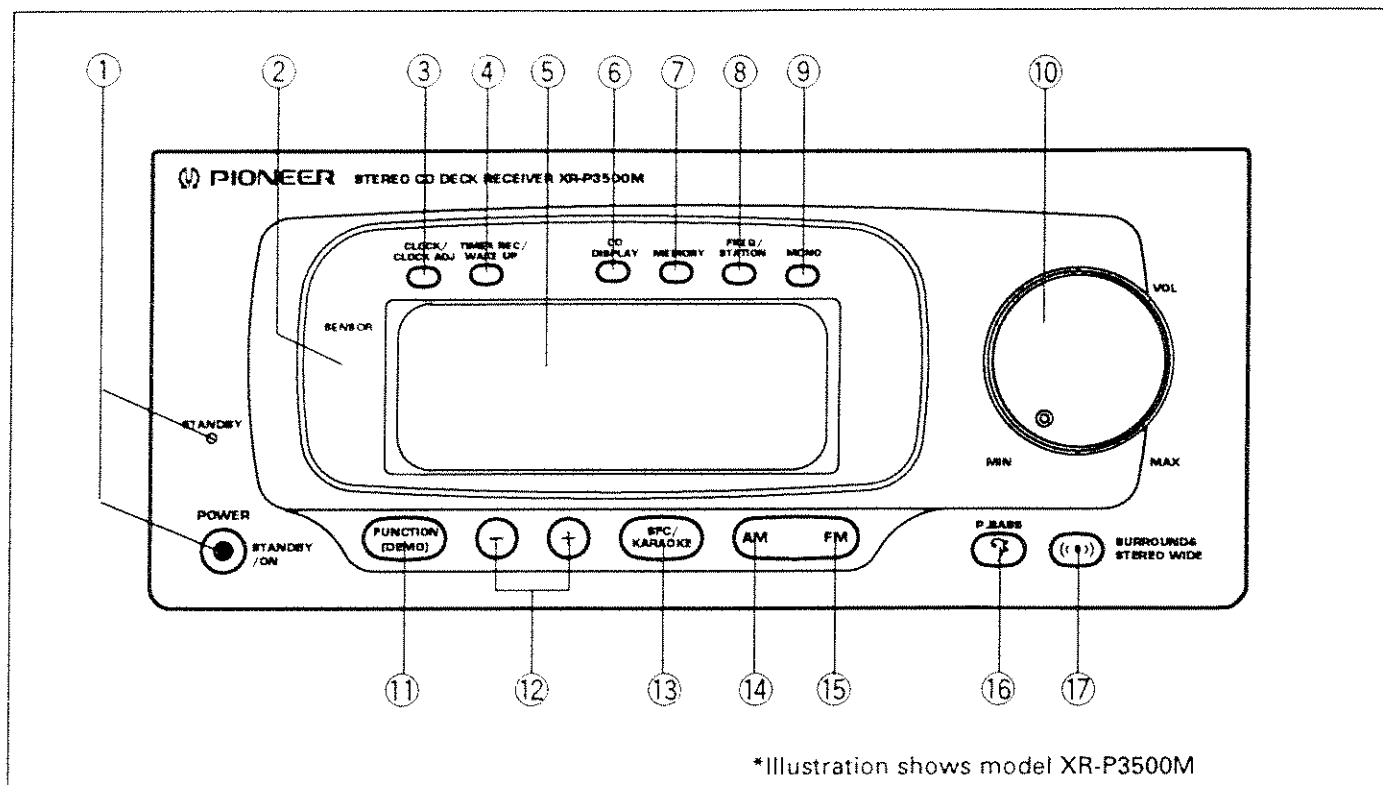
If reception is still poor even when a lead antenna has been fully extended indoors, stretch out a vinyl-coated wire and secure it outdoors.

NOTE:

Do not detach the AM loop antenna when using the external AM antenna.



NAMES AND FUNCTIONS OF PARTS



RECEIVER

① POWER STANDBY/ON switch and STANDBY indicator

This is the switch for electric power.

ON: When set to the ON position, power is supplied and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

② Remote sensor

③ CLOCK/CLOCK ADJ button

④ TIMER REC/WAKE-UP button

⑤ Display

⑥ CD DISPLAY button

⑦ MEMORY button

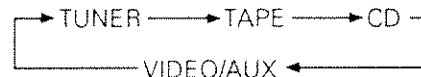
⑧ FREQ/STATION button

⑨ MONO button

⑩ VOLUME control

⑪ FUNCTION (*DEMO) button and indicators

Each time this button is pressed, the function changes in the following sequence (The selected function is displayed in the display window.):



⑫ $\ominus, \oplus$ buttons

⑬ SFC (Sound Field Control)/KARAOKE button

⑭ AM button

⑮ FM button

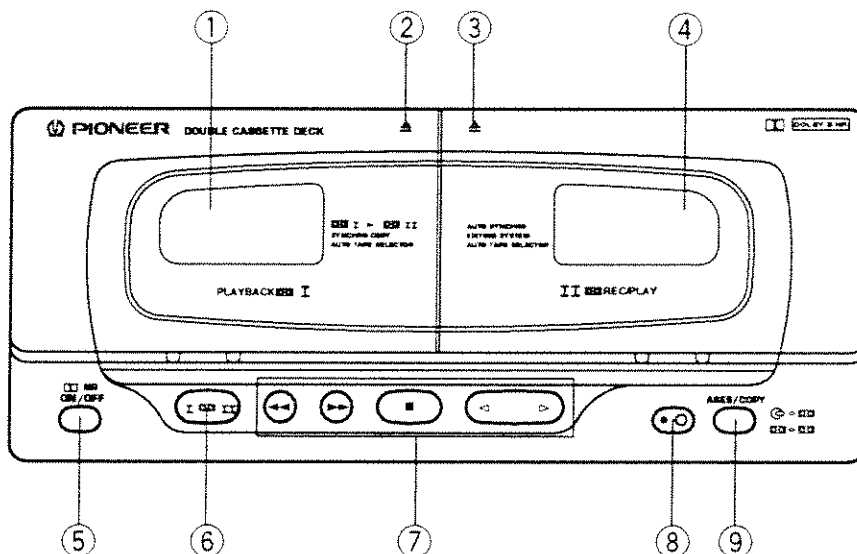
⑯ P. BASS button

⑰ U.S. model: STEREO WIDE button

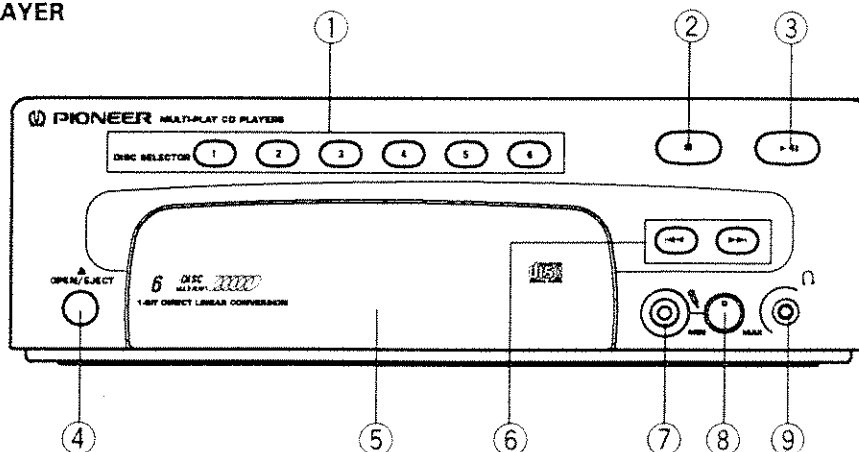
U.K., Australian and Multivoltage models:
SURROUND & STEREO WIDE button

NAMES AND FUNCTIONS OF PARTS

CASSETTE DECK



MULTI-PLAY CD PLAYER



CASSETTE DECK

- ① TAPE I cassette door
- ② TAPE I EJECT section (▲)
- ③ TAPE II EJECT section (▲)
- ④ TAPE II cassette door
- ⑤ DOLBY* NR ON/OFF button
Each time this button is pressed, DOLBY NR system turns ON and OFF.
- ⑥ TAPE I/II selector button
- ⑦ TAPE operation buttons
(Play ◀▶, Stop ■, Fast ◀◀▶▶)
- ⑧ Rec pause button (●)
- ⑨ ASES (Auto Synchro Editing System)/COPY button

MULTI-PLAY CD PLAYERS

- ① DISC SELECTOR buttons (1~6)
- ② Stop button (■)
- ③ Play/Pause button (▶/II)
- ④ OPEN/EJECT button
- ⑤ Magazine slot door
- ⑥ Manual/Track search buttons (◀◀, ▶▶)
- ⑦ Microphone jack
- ⑧ Mic level control
- ⑨ Headphones jack

■ Auto Function

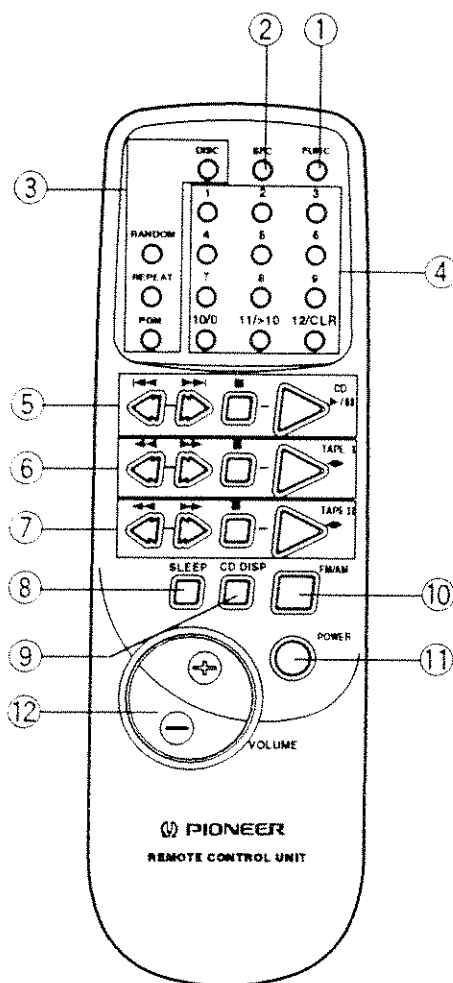
This model is equipped with an "Auto Function" operation, so when the switch for PLAY/PAUSE, DISC SELECTOR 1-6, RND, TAPE I/II, PLAY (tape), or Band (FM, AM) is pressed, the function switches automatically. Use the FUNCTION button to select the component connected to the VIDEO/AUX IN jacks, since Auto Function is not effective for this.

NOTE:

The function cannot be switched during recording and tape copying.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

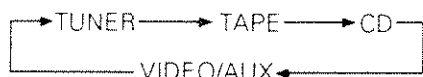
REMOTE CONTROL UNIT



REMOTE CONTROL UNIT

① Function button (FUNC)

Each time this button is pressed, the function changes in the following sequence:



② SFC button

③ CD operation buttons (DISC, RANDOM, REPEAT, PGM (Program))

④ Number buttons

To select track numbers of CD, clear input program of CD (CLR button) and then scan preset stations.

⑤ CD operation buttons

(Track search ◀◀ ▶▶, Stop ■, Play/Pause ▶/||)

⑥ TAPE I operation buttons

(Fast ◀◀ ▶▶, Stop ■, Play ◀▶)

⑦ TAPE II operation buttons

(Fast ◀◀ ▶▶, Stop ■, Play ◀▶)

⑧ SLEEP timer button

⑨ CD DISP (CD Display) button

⑩ Band (FM,AM) button

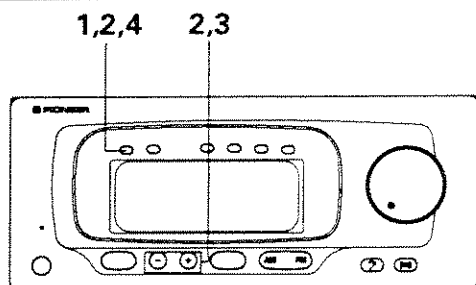
⑪ POWER button

⑫ VOLUME (-/+) buttons

SETTING THE CLOCK

- Set the clock when it has been incorrectly set, or when power has been cut to the unit.
- This clock provides a 24 hour display.
- The clock cannot be set by the remote control unit.

Example: Setting the clock to 18:40



- 1 While power is turned off, keep **CLOCK/CLOCK ADJ** pressed for more than 3 seconds.

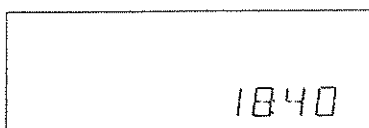


- 2 Set the "hour" by pressing $\ominus$ or $\oplus$ button and then pressing **CLOCK/CLOCK ADJ** button.



- 3 Set the "time" by pressing $\ominus$ or $\oplus$ button.

- 4 Press **CLOCK/CLOCK ADJ**, when "00" seconds of that minute are reached for precise adjustment.



- After connecting to an AC outlet, be sure to set the present time. Timer playback and timer recording are not possible unless the time has been set.
- The time display will appear as "--:--" when the power is restored following a power failure, or if the power cord has been disconnected. In this case, be sure to set the present time again.

Operations indicated by the [] mark are performed with the remote control unit.

TURNING ON THE POWER

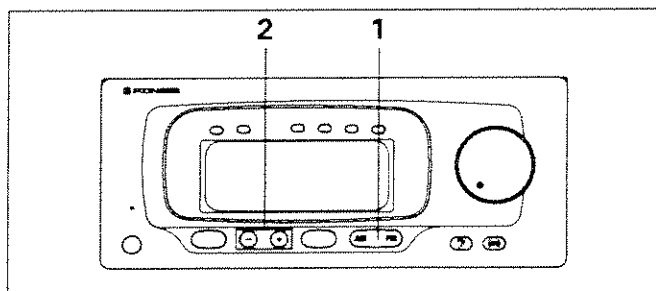
Press the power switch to turn on power.

The power comes on when you press one of the buttons with green lettering.

- Band (FM, AM) button
Receives broadcasts.
- CD Play/Pause (▶/⏏) button
Starts playback if a CD is inserted.
- Tape Play (◀, ▶) button
Starts playback if a tape is inserted.
Playback starts in the forward direction if you use the remote control unit.

TUNING INTO STATIONS

- Broadcast reception is not possible unless an antenna is connected, so be sure to connect one.



- 1 Select AM or FM.

- 2 Tune in the desired station by pressing $\ominus$ or $\oplus$ button.

• Manual tuning

Selected frequency changes by one step each time the $\ominus$ or $\oplus$ button is pressed and quickly released. The frequency changes continuously when the $\ominus$ or $\oplus$ button is kept pressed and stops when the button is released. When the broadcasting station is tuned in, the TUNED indicator lights up.

• Auto tuning

The frequency changes by pressing the $\ominus$ or $\oplus$ button for 1 to 2 seconds and then releasing the button. The tuner will automatically search for a broadcasting station and stop scanning when one is tuned in.

MONO button

During FM reception: Switches between stereo and monaural modes when listening to a stereo broadcast. If there is a lot of noise in the stereo position, switch to MONO and the noise will be suppressed.

To change the frequency step (Multi-voltage models only)

The frequency step (AM: 9kHz/10kHz, FM: 50kHz/100kHz) is preset depending on the area. If you need to change the step, follow the next procedure.

- 1 Turn off the power.
- 2 While pressing the **FREQ/STATION** button, turn on the power.

Repeat 1-2 to reset the frequency step.

Beat cut function

If noise occurs during AM broadcast recording, perform the following procedures to reduce the noise.

- 1 Press the **POWER** switch so that the **STANDBY** indicator lights up.

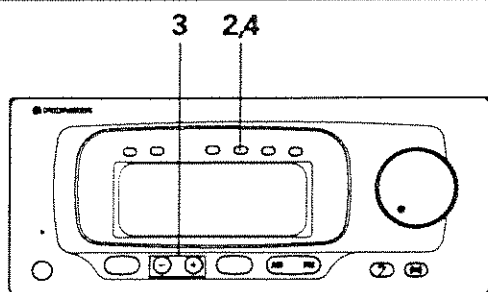
- 2 Turn on the power while pressing the **MONO** button. (The **BEAT CUT** indicator on the display lights up.)

- To cancel the **BEAT CUT** function, repeat 1 and 2.

MEMORIZING STATIONS

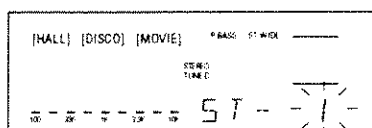
Manual presetting

- Up to 24 FM/AM stations can be memorized at random.
- For FM reception, the **MONO** setting can be memorized.



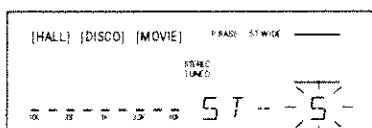
- 1 Tune in the desired station.

- 2 Press **MEMORY**.



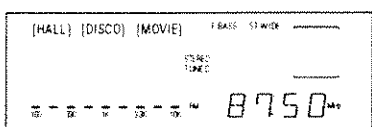
"ST---" appears on the display.

- 3 Select the station number to be memorized by pressing **⊖** or **⊕** button.



Operate while the display is flashing (it flashes for approx. 4 seconds).

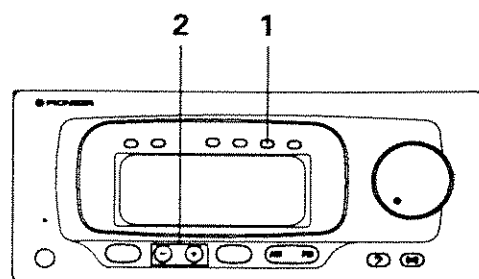
- 4 Press **MEMORY**.



Operate while the display is flashing (it flashes for approx. 2 seconds).

The displayed frequency is stored in the selected station No. Repeat steps 1 through 4 to memorize up to 24 stations.

Station call



- 1 Press **FREQ/STATION** to select station mode.

Station No. appears on the display.

- 2 Select the desired station number to recall by pressing **⊖** or **⊕** button.

- When the function is set to **TUNER**, it is possible to select the station with the number buttons on the remote control unit.

NOTES:

- The memorized stations will not be erased even if the power is turned off. However, if the AC power cord is unplugged or a power failure occurs, the memorized stations will be erased. (If the AC power cord is unplugged, the memorized stations will be preserved for several days.)
- If the memorized stations have been erased, memorize them again.

CAUTIONS REGARDING COMPACT DISC HANDLING

CARE OF DISCS

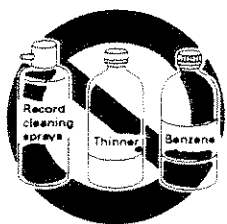
- When holding discs, do not touch their signal surfaces.

STORING DISCS

- Always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures.
- Always read and abide by the precautionary notes listed on disc labels.

CLEANING DISCS

- Fingerprints or smudges on the surface of a disc will not directly affect the recorded signals. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.
- If a disc becomes very dirty, dip a soft cloth in water, and after wringing it out well, wipe the dirt away gently. Remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.
- Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the label.
- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.



NOTE:

- *In order to play an 8-cm (3 inch) CD you will need a special Multi-Play Magazine (JD-M108 or JD-M308) which is sold separately. Be sure to read thoroughly the Operating Instructions before using it.*
- *8-cm (3 inch) CD Adaptors*
It is possible that even an adaptor which meets recommended standard CD specifications will not be usable with the CD player. It is recommended that the special Multi-Play Magazine (JD-M108 or JD-M308) be used.
- *Never load an 8-cm (3 inch) CD or its adaptor into a standard 12-cm (5 inch) magazine. This may seriously damage the CD player.*

CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, contact your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

FOR U.S. customers only

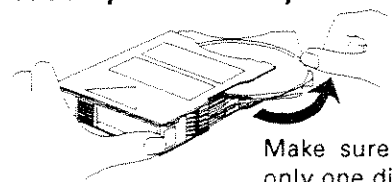
You may purchase additional Pioneer six-compact-disc magazines from your dealer. If however, they are not available at your dealer in the United States, you may order from:

PIONEER ELECTRONICS SERVICE, INC.
P.O. Box 1760
2265 East 220th Street
Long Beach, CA 90801-1760
U.S.A.
Phone: 1-800-228-7221

INSERT DISCS INTO THE MAGAZINE

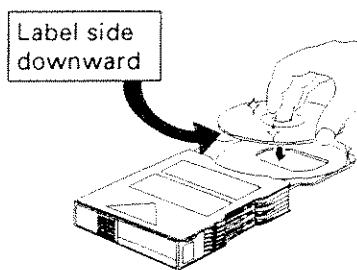
Insert any discs which you may have into the supplied magazine. Up to six discs may be inserted. The numbering of the discs begins with 1 at the topmost tray, and then increases in order downwards to 6 for the lowest tray. The magazine has a window through which the pulled-out disc tray can be checked. Even during playback, the number of the disc being played back can be checked through this window.

1. Pull out only one disc tray.



Make sure to pull out only one disc tray.

2. Position discs with the label side downward.



3. Put the disc tray back as it was originally.

CAUTION:

- Please make sure you only pull out one disc tray at a time. (When a disc tray has been pulled out, do not pull out other disc trays.)
- If discs are inserted label side upward, it will not be possible for them to be played. Please make sure you insert them with the label side downward.
- Objects other than discs (song cards, explanations of disc contents, etc.), must never be inserted into the disc trays.
- Do not touch the playing surface of discs (iridescent side) with hands or fingers.

Additional magazines identical to the one supplied are available as options (*JD-M100, JD-M200, JD-M300, JD-M108, JD-M308).

Please use them to make your own disc library, with separate magazines for each artist or genre.

- JD-M100, JD-M200, JD-M300 Magazine for 12-cm (5 inch) discs
- JD-M108, JD-M308 Magazine for 8-cm (3 inch) discs

NOTE:

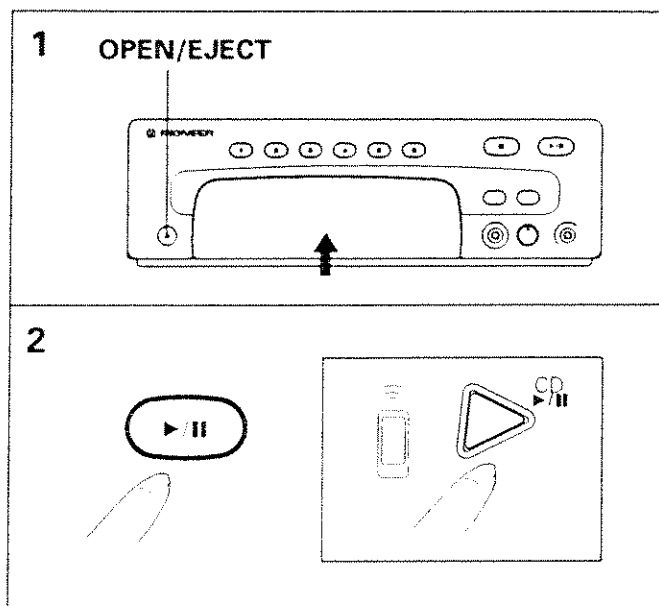
Both 12-cm (5 inch) discs and 8-cm (3 inch) discs cannot be installed together in a magazine.

Cautions regarding handling of magazines

- When inserting a magazine into the player, make sure that the direction of insertion is correct.
- Do not take magazines apart.
- Be careful not to drop, or hit magazines against things. Also do not apply strong force to trays which have been withdrawn.
- Application of benzene, thinner, insecticide or other volatile liquids to a magazine may damage the surface, so keep magazines away from such substances.

LISTENING TO COMPACT DISCS

To play a compact disc



1 Press OPEN/EJECT ▲. Insert a magazine and push it in until a click sound is heard.

2 Press Play/Pause ►/|| (or ►/|| on the remote control unit) to start playback.
The first disc is automatically set for playback.

NOTES:

- If the function is switched during CD playback, the CD player enters stop mode automatically.

To take out the magazine

Depress the OPEN/EJECT ▲ button and remove the magazine.

CAUTION:

Do not unplug the power cord during playback, as this could result in damage to the disc.

To stop playback

Function	Buttons
To stop playback temporarily	
To play back again	
To stop playback	

To search for a particular track

Function	Buttons
To search for the beginning of a track	 Press.
To rapidly advance forward or backward (Main unit only)	 Keep pressed.

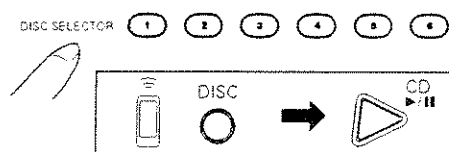
To change the display

Disc number and track number (normal display)	 The display changes each time you press the button above
↓	
Playing time of the track	
↓	
Total playback time of the disc	
↓	
Normal display	

VARIOUS OPERATIONS OF THE CD PLAYER

Disc search - To search for a particular disc

In the playback, stop, or pause mode



When DISC SELECTOR (1 - 6) is pressed, the player searches for the specified disc and playback starts from the beginning of that disc. If Disc Search is carried out in pause mode, the player searches for the beginning of the specified disc and then enters pause mode.

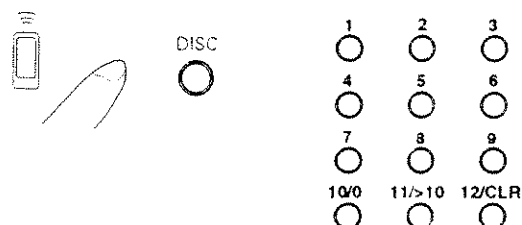
With the remote control unit, each time DISC is pressed the disc No. changes. In stop mode, press ►/II to start playback.

NOTE:

If the disc number of a tray which does not contain a disc is selected, playback cannot start from that disc number.

To play back desired track (Direct search)

- Set the function mode to CD and then operate with the remote control unit.



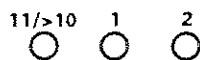
- Select the desired disc with the DISC SELECTOR buttons in the playback or stop mode.
- Enter the track number with the number buttons.

<Example>

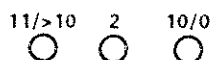
To select track number 3



To select track number 12
(Track number cannot be selected with pressing 12/CLR.)



To select track number 20



Playback of the specified track will start.

If you make a mistake during entry, press the correct number.

If you search a track during the Pause mode, the player will be in Pause mode for the beginning of the selected track.

To start playback, press ►/II.

Random playback - To play all tracks in random order



When RANDOM is pressed, the RND indicator lights and all tracks on all discs are played in a random order.

After all the tracks are played, the player enters stop mode.

- To stop random playback, press ■.

NOTES:

- Random playback cannot be applied to the programmed tracks.
- If RANDOM is pressed during program playback, the programmed contents will be erased.

To repeat playback (repeat play)



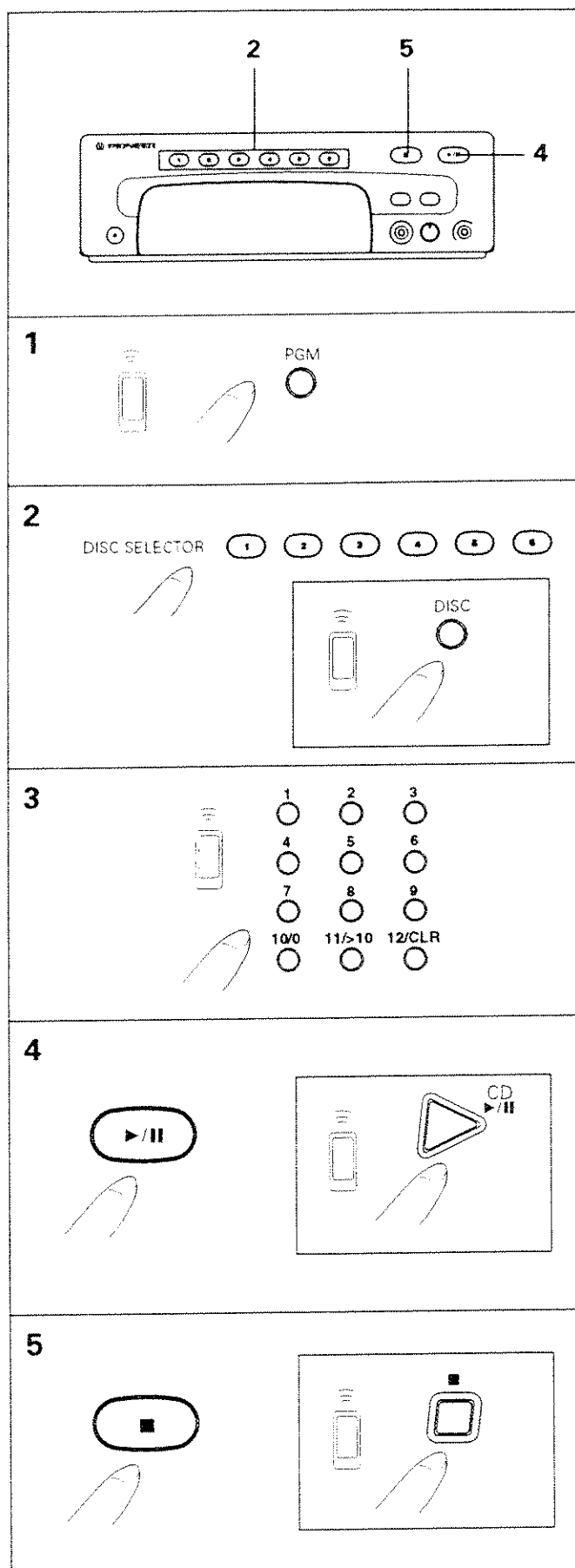
- The REPEAT indicator lights up.

All tracks of all discs will be repeated.

In the repeat mode, programmed play and random play will be repeated.

- To exit repeat mode, press REPEAT or ■ so that the REPEAT indicator goes off.
- To repeat one track, program one track and press REPEAT (See page 19).

TO PLAY ONLY DESIRED TRACKS/DISCS



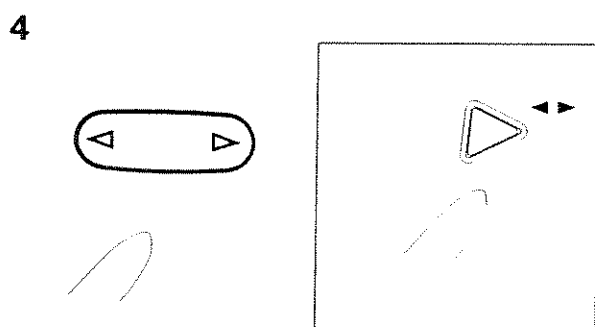
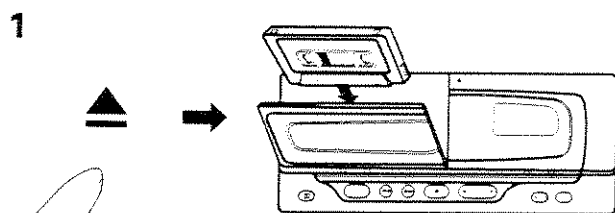
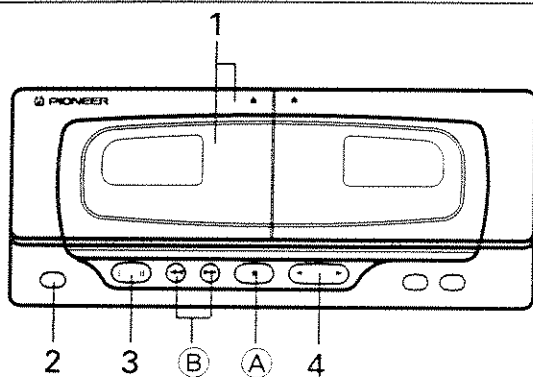
Program playback - To program tracks/discs in desired order

- Up to 32 steps can be programmed.
- 1 In the stop mode, press PGM.**
PGM indicator lights.
 - 2 Press the DISC SELECTOR button which contains the track to be programmed.**
When the DISC SELECTOR button on the main unit is pressed, all tracks on the disc are programmed. By pressing the number button, all programmed tracks are canceled, and the selected track number is programmed.
 - 3 Press the number buttons in desired order to play back.**
The display will show the programmed track number and then the program step.
 - 4 Press ►/II.**
 - 5 To stop Program playback, press ■.**

To clear all of the program contents

- In the stop mode, press ■ or OPEN/EJECT ▲.
- In the playback mode, press ■ twice.
- Each time the CLR button on the remote control unit is pressed in the stop mode, the last programmed step will be cleared.

PLAYING TAPES

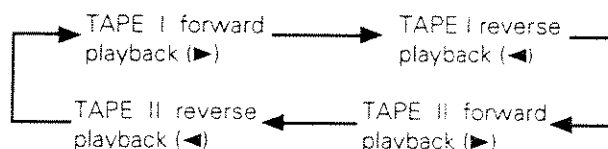


Basic operation

- Tapes may be played back in TAPE I or TAPE II but not in both decks at the same time.
- This deck automatically plays both sides of a tape.

1 Press EJECT section (▲) and load a recorded tape, then push in the cassette door until it locks.

For relay playback load tapes into TAPE I and TAPE II. Relay playback is repeated as follows (32 sides maximum):



If there is a tape in only one deck, that deck continuously plays both sides of the tape (16 sides maximum).

2 Set DOLBY NR to the same position used for recording.

Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on.

3 Select TAPE I or TAPE II with the TAPE I/II selector button.

When a tape is loaded, the loaded deck will automatically be selected.

4 Press ▶ or ◀ to start playback.

- ▶: Forward playback
- ◀: Reverse playback

When you use the remote control unit, press the Play button (◀▶) for the deck you choose to play (TAPE I or II).

Press one time: Forward playback (▶)

Press twice: Reverse playback (◀)

A To stop playback, press ■.

B To fast forward or rewind, press ▶▶ or ◀◀.

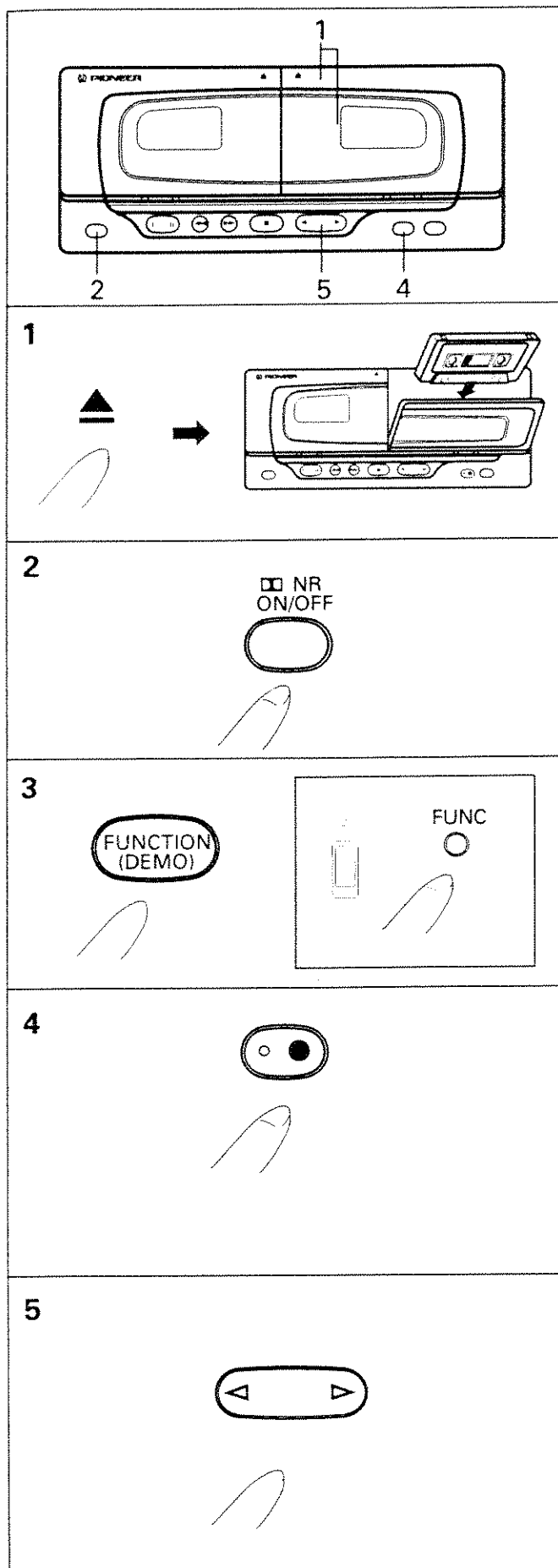
NOTES:

- Do not press EJECT section (▲) while a tape is running.
- Confirm that the deck has stopped before pressing EJECT section (▲).

Auto Stop Mechanism

This mechanism automatically stops the tape when the end of the tape is reached during fast forward or reverse (◀◀ or ▶▶).

RECORDING



Recording on tape

- This deck is equipped with an auto-reverse function, so if you record in the ► direction, when recording finishes in that direction it will automatically start recording in the ◄ direction. If you only want to record on one side of the tape, record in the ◄ direction, or break off the accidental erasure prevention tab on the side you don't want to record on.
 - Use a TYPE I (Normal) or TYPE II (HIGH/CrO₂) tape.
- 1 Load the tape for recording into TAPE II.**
 - Wind the tape forward past the leader to the start of the magnetic coated portion.
 - 2 Set DOLBY NR to ON or OFF.**
 - A tape recorded using the DOLBY NR system must be played back using the same system.
 - 3 Select the program source to be recorded using the FUNCTION (DEMO) button on the receiver.**
 - 4 Press ●.**
 - The deck enters record-standby mode.
 - 5 Press ► or ◄ to start recording.**
 - 6 Play the program source to be recorded.**
 - The recording level is automatically adjusted.

To stop recording:

Press STOP ■.

To stop recording temporarily:

Press ●. To resume recording, press ► or ◄.

- In the rec pause mode or recording mode, the input source cannot be changed.
- In the rec pause mode or recording mode, the sound field control and stereo wide mode do not function.
- During recording with P.BASS, the playback sound is heard with P.BASS, but not recorded.
- In Rec Pause or Recording mode, KARAOKE function cannot be used.
- This unit automatically sets the recording level by ALC (Auto Level Control) function.

Copying a tape

The contents of the tape in TAPE I can be copied onto the tape in TAPE II.

- The tape is copied with the same setting as the one being played regardless of the setting of the DOLBY NR button.

- 1 Load the recorded tape into TAPE I and the tape for recording into TAPE II.**
 - Wind the tape forward past the leader to the start of the magnetic coated portion.
 - Tape copying should begin in the forward direction (►).
 - The tape copy mode is canceled when the end of either of the tapes is reached, so it is advisable to use tapes of the same length.
- 2 Set the FUNCTION (DEMO) button on the receiver to TAPE.**
- 3 Press ASES/COPY to start copying.**

To stop copying:

Press ■. Both decks will stop simultaneously.

RECORDING

Mixing a recording

You can record the mixed sound onto a tape in TAPE II.

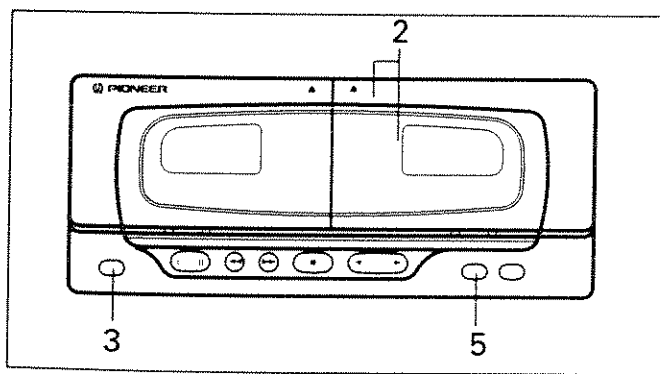
- 1 Perform steps 1 to 4 in the section "Mixing sounds" (p.25)
- 2 Load a tape for recording into TAPE II.
- 3 Set DOLBY NR to the desired position.
- 4 Press ●.
- 5 Press ► or ◀ on TAPE II to start recording.
- 6 Sing along with the program source.

NOTE:

Mixing recording cannot be performed when TAPE is selected in step 2 of "Mixing sounds" section.

A.S.E.S. (Auto Synchro Editing System)

For automatic recording of a CD to a cassette tape.



- A 10-second blank is recorded at the beginning of the tape automatically.
- Recording starts in the forward (►) direction.
- When recording on both sides, and the tape ends in the middle of a track in the forward (►) direction, recording starts from the beginning of the track when it continues in the reverse (◀) direction.
- When there is no disc in disc tray 1 or 2, A.S.E.S. does not function. Be sure to insert a disc on disc tray 1 or 2 of the magazine.
- A.S.E.S. cannot be carried out when all discs are programmed with the DISC SELECTOR buttons on the CD player.

1 Load the CD.

When programming is performed, tracks will be played in the programmed order.

2 Load the tape for recording into TAPE II.

Recording should begin in the forward direction (►).

3 Set DOLBY NR to ON or OFF.

4 Set the FUNCTION (DEMO) button on the receiver to CD.

5 Press ASES/COPY.

To stop A.S.E.S. during recording:

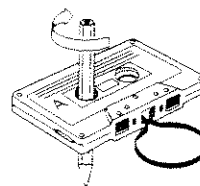
Press ■.

- When A.S.E.S. is activated, this unit sometimes is not operated correctly, for example, present track is skipped and next track is played back near the end of the tape. When the CD finishes playback, A.S.E.S. function stops. In this case, start recording without using A.S.E.S. function from the next track.

HOW TO HANDLE CASSETTE TAPES

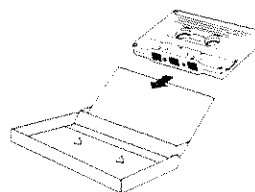
Is the tape loose, or is some of the tape sticking out of the cassette?

This will damage the tape itself. To remove the slack, insert a pencil into the spool and gently wind it.



Safekeeping

Put the cassette tape back into its case and store it in a location away from exposure to magnetic fields, humidity, dust, or oil.



TIPS ON USING CASSETTE TAPES

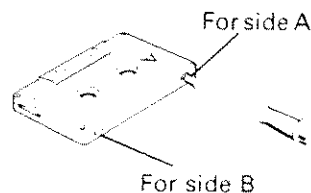
- Leader tape (which does not allow sound to be recorded over it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for approx. 5 seconds so that the leader tape clears the recording head.
- Forwarding or reversing the cassette tapes before recording prevents shock to the unit caused by slack.

Do not use tapes longer than 90 minutes.

Since tapes longer than 90 minutes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.

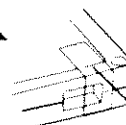
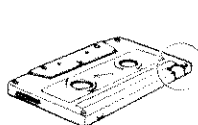
How can you prevent accidental erasure?

When the tab on the cassette shell is broken out with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing ●, so valuable recordings will not be erased in error.



When you want to record again on a cassette with broken erasure prevention tabs, cover the hole with a double layer of adhesive tape.

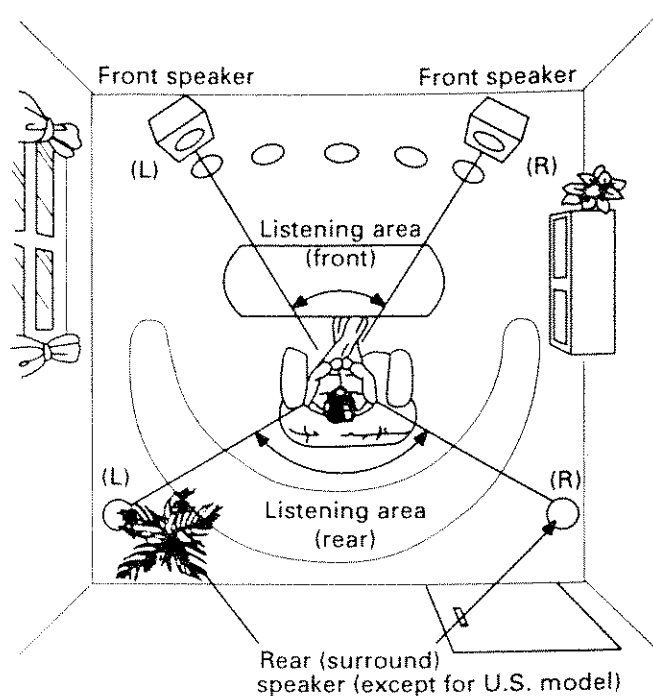
With TYPE II (HIGH/CrO₂) tape and TYPE IV (Metal) tape, be sure not to cover the tape-type detection holes. This unit cannot record TYPE IV (Metal) tapes.



Be sure not to cover the tape-type detection holes.

SOUND FIELD CONTROL AND SURROUND & STEREO WIDE

This section describes the characteristics of various sound field modes, installation and the role of the speakers.

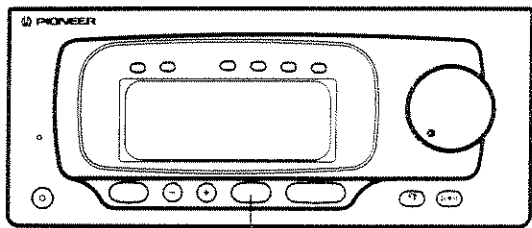


Mode		Sound field effect	Speakers		
			L	R	S
SFC	HALL	Provides a reverberation effect like that produced in a concert hall with abundant rich sound.	○	○	⊙
	DISCO	Boosts low frequencies and reproduces dynamic sound like in a disco.	○	○	⊙
	MOVIE	Naturally reproduces the conversations and effect sound with movie software and provides a stereophonic effect.	○	○	⊙
STEREO WIDE		Expands the stereo sound.	○	○	⊙

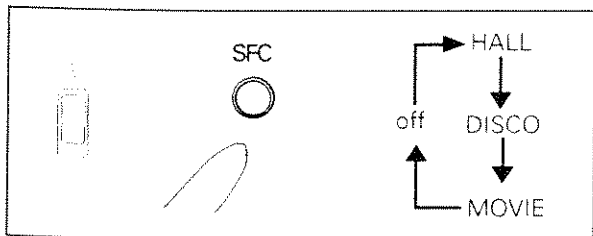
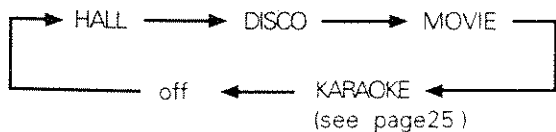
Depending on the source, surround sound may not be fully effective even if you connect surround speakers.

SOUND FIELD CONTROL OPERATION

Selecting a preset sound setting



SFC/KARAOKE



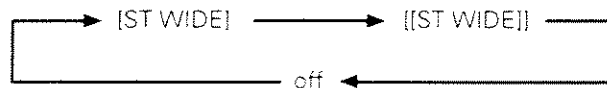
Select one of the three settings with the SOUND FIELD CONTROL buttons.

- HALL:** Provides a reverberation effect like that produced in a concert hall.
- DISCO:** This boosts bass and treble to deliver a powerful, more dynamic sound.
- MOVIE:** Naturally reproduces the conversations and effect sound, and provides wide and dynamic acoustics. This is effective with movie software.

Creating an expansive sound field – Sound field of the STEREO WIDE mode



Each time the SURROUND & STEREO WIDE or STEREO WIDE button is pressed, the setting of the STEREO WIDE mode changes in the following sequence.



[ST WIDE]

Creates a more expansive sound field compared with the normal sound field.

[[ST WIDE]]

Creates a more expansive sound field compared with [ST WIDE].

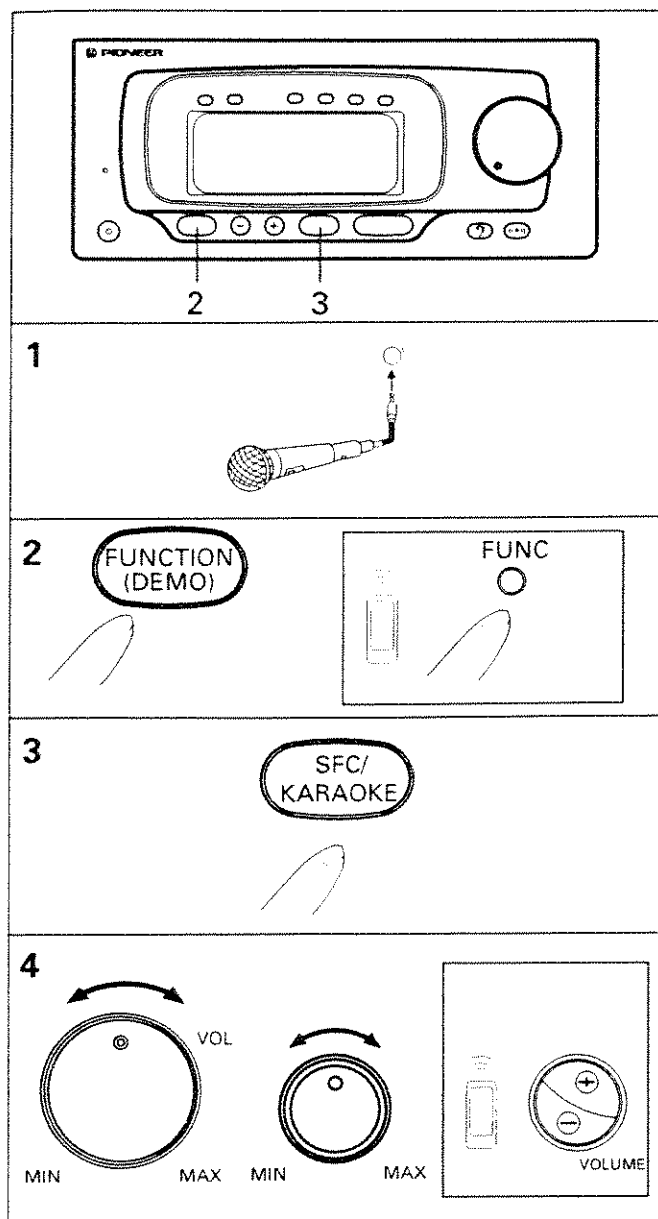
Boosting the bass sound

P.BASS



This function comes on automatically when the unit is turned on. To cancel this function, press the P.BASS button. The function will switch between off and on as you press the button.

KARAOKE



Mixing sounds

- This function cuts frequencies in the vocal range during playback of a stereo source such as a CD, tape, or stereo FM broadcast. Setting to KARAOKE function and singing into a microphone provides an easy way to enjoy Karaoke. (Although this function cuts frequencies in the vocal range, it does not completely eliminate the sound of the vocals.) This function has no effect with monaural sources.

- 1 Plug a microphone into the Microphone jack.
- 2 Select the desired program source with the **FUNCTION (DEMO)** button and start playback of the program source.
- 3 Set to **KARAOKE** function by pressing **SFC/ KARAOKE** button. Each time you press the button, each SFC mode and KARAOKE mode is switched circularly as follows.

▶ HALL → DISCO → MOVIE → KARAOKE → off

4 Adjust the volume with VOL and Mic level control

NOTE:

- After using the microphone, set the Mic level control to the minimum position and unplug the microphone from the Microphone jack. Be sure to set the Mic level control to the minimum position when the microphone is not used.

If howling (microphone feedback) occurs:

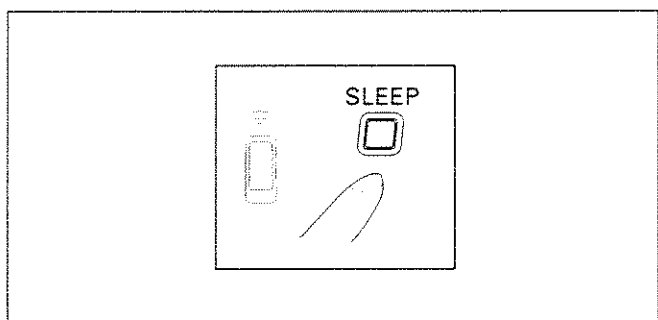
During use of the microphone, if a high-pitched howling sound comes from the speakers, do one of the following:

- Turn Mic level control knob counterclockwise to decrease the microphone volume.
 - Locate the microphone away from the speakers.
 - Lower the sound volume.
- Achieving the full effect of this function may not be possible with songs featuring duets, different vocals on left and right channels, strong echo effects, or depending on recording conditions of sources.
 - This function is most effective with sources other than tape.

For microphone mixing recording:

By performing recording on deck II, you can record the results of your microphone mixing. (When playing back the recorded tape, set KARAOKE to OFF.) Note, however, that microphone mixing recording cannot be performed when TAPE has been selected in step 2.

SLEEP TIMER



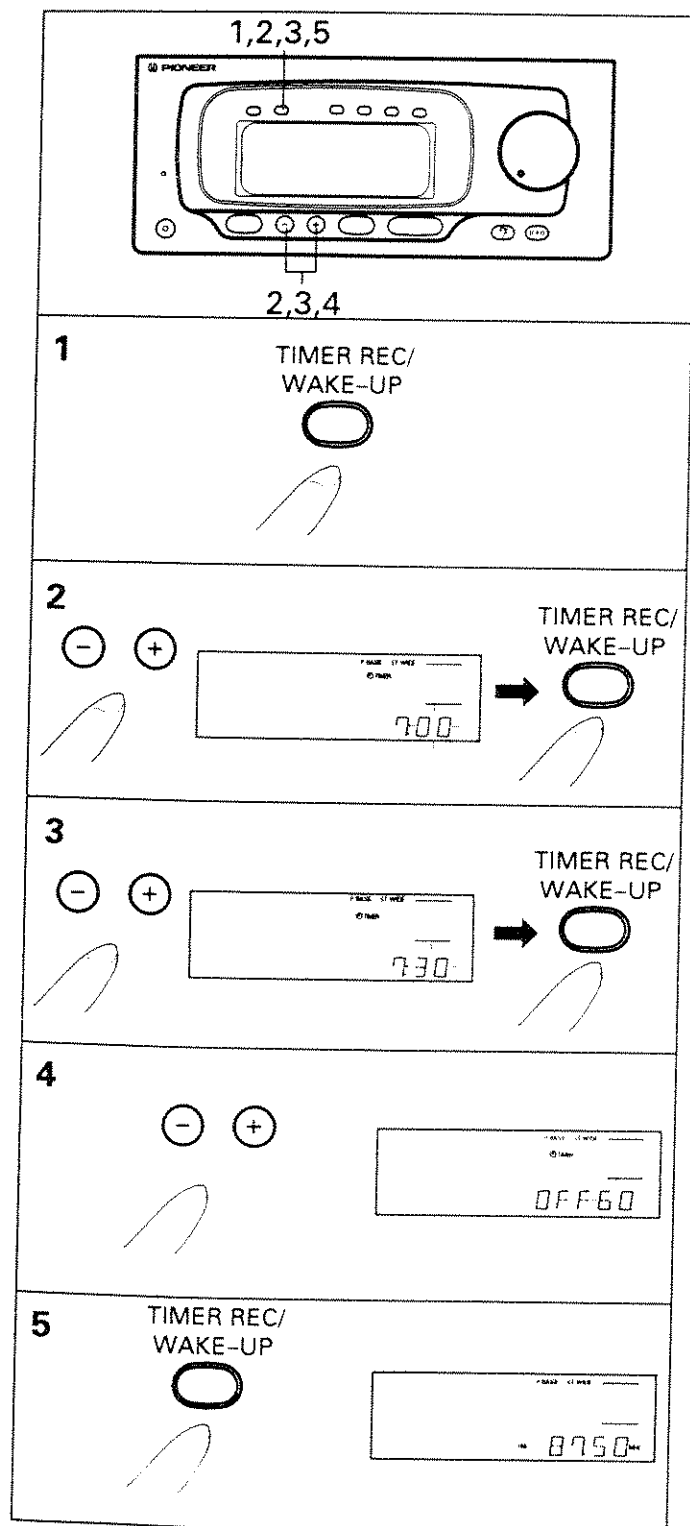
Sleep timer - Automatically turns off power

Power turns off automatically after the specified time has elapsed. Each time SLEEP is pressed, the setting changes in the following sequence: 90 → 60 → 30 → 0.

NOTE:

If you press SLEEP during Sleep operation, the time remaining till the power turns off is displayed. Do not press SLEEP when the remaining time is displayed. Otherwise, the setting changes and the sleep timer cannot function properly.

TIMER PLAYBACK/TIMER RECORDING



The sleep Timer and Record Timer cannot be used together.

Timer setting

Example: Using TIMER from 7:30 to 8:30

To set the timer

- 1 Press the **TIMER REC / WAKE-UP** button.
- 2 Set the desired "hour" to start by pressing **-** or **+** button and then press **TIMER REC/ WAKE- UP** button.
- 3 Set the desired "minute" to start by pressing **-** or **+** button and then press **TIMER REC/ WAKE- UP** button.
- 4 Set the "minutes" for your desired length of use by pressing **-** or **+** button. Each time you press **+** button, the display switches from 90→30→60→90 (min) in sequence. (**-** button is for switching in the reverse sequence.)
- 5 Press the **TIMER REC / WAKE-UP** button.

[To activate the timer]

To carry out the WAKE - UP timer

- 1 Select the function to be played back with **FUNCTION (DEMO)**.
CD: Load the CD.
TUNER: Select the station.
TAPE: Load the cassette tape. (Playback starts from TAPE I forward playback (▶).)
 - 2 Adjust the volume.
 - 3 Turn off the power.
 - 4 Press the **TIMER REC/WAKE-UP** button so that the **TIMER (TIMER, WAKE UP)** indicator lights.
Timer on and off times are displayed for 4 seconds.
- The WAKE-UP timer comes on every day at the same time as long as you do not cancel it.

To set the timer recording

- 1 Set the function to **TUNER**.
 - 2 Tune in the station to be recorded.
 - 3 Load the tape for recording into **TAPE II**.
Recording starts in the forward direction.
 - 4 Set the volume to **MIN** position.
 - 5 Turn off the power.
 - 6 Press the **TIMER REC / WAKE-UP** button twice so that the **TIMER (TIMER REC)** indicator lights.
Timer on and off times are displayed for 4 seconds.
- After this, if power switched on before the timer operates, timer settings are canceled. For this reason, the Record Timer and Sleep Timer cannot be used simultaneously.
 - Timer recording is preset to cancel after recording once.

To change timer settings

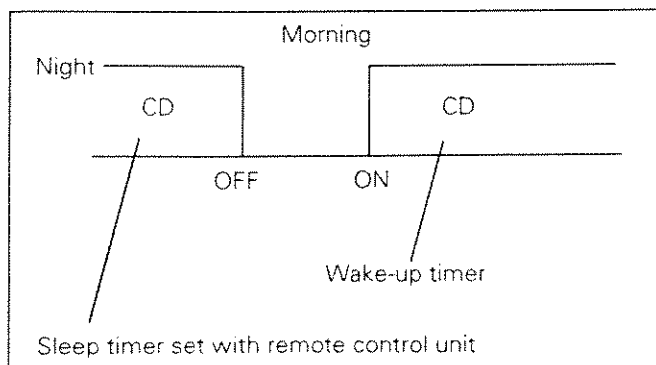
To change all of the timer settings, start over again, inputting the settings that you want.

If you make a mistake while setting the timer

Go ahead to the next item and continue setting the various items until you finish. Then use the "To change timer settings" procedure to change the setting that was incorrect.

To combine sleep timer and timer playback

Example: To go to sleep listening to a CD, and then use the wake up with the wake-up timer.



TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

	Symptom	Cause	Remedy
General	No sound from speakers.	- AC cord is unplugged. - All cords are not connected properly.	- Plug power cord into wall socket correctly. - Connect cords correctly referring to CONNECTIONS on page 6.
		Function is not set to the desired listening source on the receiver.	Select correct function.
Cassette tape deck	Cassette door does not open.	The power cord was unplugged while the tape was running.	Plug in the power cord.
	Cannot record.	Erase prevention tabs are broken off.	Use a cassette that can be recorded on, or apply adhesive tape over tab holes.
	Sound is muffled. Previously recorded sounds remain.	Dirty heads.	Clean heads.
	Sound is muffled. Treble tones too strong.	Tape recorded with DOLBY NR but played without.	Turn on DOLBY NR system for tapes recorded with DOLBY NR.
CD player	Playback does not start.	- Disc is loaded upside down. - Dirt, blur, etc. on the disc. - Disc has bad scratch or warp.	- Load a disc correctly with the label side (printed side) DOWN. - Clean the disc. - Replace the disc.
Tuner	Sound is distorted.	- Antenna not connected. - Antenna in poor position. - Interference from nearby fluorescent light, hair dryer, or other electrical appliance.	- Connect antenna correctly. - Change antenna position. - Stop using device causing interference.
	There is no stereo sound.	The MONO indicator in the display window on the receiver lights up.	Press MONO so that the MONO indicator goes out.
Others	Timer does not work.	Current time is not set.	Set current time.
	Remote control does not work.	- Batteries are run down. - A fluorescent light is shining on the remote sensor window	- Replace with new batteries. - Move the unit away from the fluorescent light.
	In the karaoke mode, noise is heard when using a microphone.	Interference from nearby fluorescent light, hair dryer, or other electrical appliance.	Stop using device causing interference.

Abnormal functioning of this unit may be caused by lightning, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

MAINTENANCE

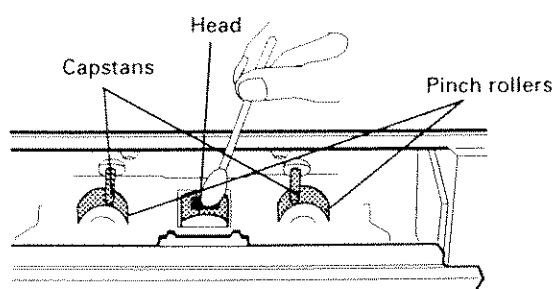
Cleaning the head section

The heads, capstans and pinch rollers are parts which are liable to become dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

1. Turn the power off.
2. Press EJECT section (▲) to open the cassette door.
3. Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstans, and pinch rollers. Wait 2-3 minutes until the cleaning fluid dries.

NOTE:

This unit uses a head-slant standby system, with the result that the heads are mounted at an angled position.



- The illustration shows TAPE I.

Demagnetizing the cassette deck heads

The deck heads may become magnetized after the deck has been used for a long period of time, or if a magnet or other magnetized object (screwdriver, etc.) is brought near the heads. Magnetization of the heads results in increased noise and reduced ability to reproduce high-frequency sounds.

In this case, please use a commercially available head demagnetizer at regular intervals to eliminate the magnetic field on the heads. When using a head demagnetizer, turn this unit's power switch ON. In order to prevent adverse effects on the receiver and speakers, however, **be sure to turn down the receiver's volume control to its lowest position**, and disconnect any headphones from their headphones jack. For details, consult the instructions accompanying your head demagnetizer.

Maintenance of external surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water and wrung out well, then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzene, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.



Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



SPECIFICATIONS

STEREO MULTI-PLAY CD CASSETTE DECK RECEIVER:

XR-P5500M / XR-P4500M / XR-P3500M

Amplifier section

<XR-P5500M>

Continuous Average Power Output is 100W Watts* per channel, min., at 8 ohms from 60 Hertz to 15,000 Hertz with no more than 1% total harmonic distortion.**

<XR-P4500M>

Continuous Power Output (RMS) 100 W +100W
(1 kHz, T.H.D.10%, 8 Ω)
Peak Music Power 1,400W

(U.S. model)

Continuous Average Power Output is 70 Watts* per channel, min., at 8 ohms from 60 Hertz to 20,000 Hertz with no more than 1% total harmonic distortion.**

<XR-P3500M>

Continuous Power Output (RMS) 50 W + 50W
(1 kHz, T.H.D. 10%, 8 Ω)
Peak Music Power 750W
Continuous Power Output (DIN) 36W+36W
(1kHz, T.H.D.1% 8Ω)
Music Power (DIN) 180W

FM/AM tuner section

FM tuner section

Frequency Range 87.5 MHz to 108 MHz
Antenna Input 75Ω unbalanced

AM tuner Section

Frequency Range
With 10 kHz step 530 kHz to 1,700 kHz
With 9 kHz step 531 kHz to 1,602 kHz

CD section

Type Compact disc digital audio system
Wow and Flutter Limit of measurement
(±0.001% W.PEAK) or less (EIAJ)

Cassette deck section

Systems 4 track, 2-channel stereo
Heads Recording/playback head x 1
playback head x 1
Erasing head x 1
Motor DC servo motor x 1
Tape type TYPE I (Normal) tape/
TYPE II (HIGH/CrO₂) tape

Miscellaneous

Power Requirements
U.K. model AC 230 V, 50/60 Hz
European model AC 220-230V, 50/60Hz
Australian model AC 240 V, 50/60 Hz
U.S. model AC 120 V, 60 Hz
Multi-voltage models
Flat blade 2-pin AC plug model AC 110-115/120-127/
220-230/240V(switchable), 50/60Hz
Round 2-pin AC plug model AC 110-115/120/
220-230/240V(switchable), 50/60Hz

Power Consumption

XR-P3500M 276W

XR-P4500M

U.S. model 155W

Australian and Multi-voltage models 460W

XR-P5500M 200W

Dimensions

260(W) x 310(H) x 309(D) mm
10-4/16(W) x 12-3/16(H) x 12-3/16(D) in.

Weight (without package)

U.K. and European models

(XR-P3500M) 7.4kg

Australian models

(XR-P3500M) 7.4kg

(XR-P4500M) 8.9kg

Multi-voltage models

(XR-P3500M) 7.4kg

(XR-P4500M) 8.9kg

U.S. models

(XR-P4500M) 8.9kg(19lb 10oz)

(XR-P5500M) 9.4kg(20lb 12oz)

SPEAKER SYSTEM :

S-P255/S-P3550/S-P4550/S-P4500/S-P5500/CS-22D

<S-P255>

Enclosure Bass-reflex bookshelf type
System 2 way system
Loudspeakers
Woofer 14cm cone type
Tweeter 6.6cm come type
Nominal impedance 8 Ω
Dimensions 180(W) x 310(H) x 224(D) mm
Weight 3.0kg

<S-P3550V>

Enclosure Bass-reflex bookshelf type
System 3 way system
Loudspeakers
Woofer 15cm cone type
Mid-range 5.2cm cone type
Tweeter 2.0cm dome type
Nominal impedance 8 Ω
Dimensions 180(W) x 310(H) x 271(D)mm
Weight 3.3kg

<S-P4550V>

Enclosure Bass-reflex bookshelf type
System 3 way system
Loudspeakers
Woofer 15cm cone type
Mid-range 5.2cm cone type
Tweeter 2.0cm dome type
Nominal impedance 8 Ω
Dimensions 225(W) x 310(H) x 271(D)mm
Weight 3.7kg

<S-P4500>

Enclosure Bass-reflex bookshelf type
System 2 way system
Loudspeakers:
Woofer 15cm(5-7/8 in) cone type
Tweeter 6.6cm(2-9/16 in) cone type
Nominal impedance 8 Ω
Dimensions 180(W) x 310(H) x 275(D)mm
7-1/16(W) x 12-3/16(H) x 10-13/16(D)in
Weight 3.4kg (7 lb 8 oz)

<S-P5500>

Enclosure	Bass-reflex bookshelf type
System	3 way system
Loudspeakers:	
Woofer	16cm(6-1/4in) cone type
Mid-range	5.2cm (2in) cone type
Tweeter	2cm(3/4in) dome type
Nominal impedance	8 Ω
Dimensions	190(W) x 310(H) x 313(D)mm 7-1/2(W) x 12-3/16(H) x 12-5/16(D) in
Weight	4.3kg (9 lb 8 oz)

<CS-22D>

Enclosure	Enclosed bookshelf type
System	2 way coaxial system
Loudspeakers:	
Mid-range	10cm cone type
Tweeter	2.5cm cone type
Dimensions	130(W) x 200(H) x 107(D)mm
Weight	0.75kg

SUB WOOFER SYSTEM : S-W33D

Enclosure	D.D.D.(Double Duct Drive),Floor type
System	1way subwoofer system
Loudspeakers	20cm cone type
Dimensions	390(W) x 310(H) x 260(D)mm
Weight	9.0kg

Accessories

<Multi-play CD cassette deck receiver>

Operating instructions	1
Remote control unit	1
AAA/R03 dry cell batteries	2
FM T-type antenna	1
AM Loop antenna	1

<Speaker system>

(S-P255, S-P4500, S-P5500)	
Speaker cords	2
(CS-22D)	
Speaker cords	4
Base unit	2
Stopper	2
Screw	2

<Sub woofer system>

Plastic foot	4
Screw	4

- * Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.
- ** Measured by audio spectrum analyzer.

NOTE:

Specifications and design subject to possible modification without notice due to improvements.

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